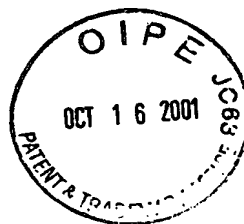


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Please amend claims 208, 210, 221, 224, 225, 228, 229, and 233-237 as follows:

Sub  
G5  
F1

--208. (Three Times Amended) A process for determining whether a chemical compound is an agonist of a mammalian GABA<sub>B</sub>R1/R2 receptor which comprises contacting cells containing nucleic acid encoding, and expressing on their cell surface, the GABA<sub>B</sub>R1/R2 receptor, wherein such cells prior to being transfected with such nucleic acid do not express the GABA<sub>B</sub>R1/R2 receptor, with the compound under conditions permitting the activation of the GABA<sub>B</sub>R1/R2 receptor, and detecting an increase in activity of the GABA<sub>B</sub>R1/R2 receptor, wherein said increase in activity indicates that the compound is an agonist of a GABA<sub>B</sub>R1/R2 receptor, and wherein the mammalian GABA<sub>B</sub>R1/R2 receptor comprises a GABA<sub>B</sub>R1 polypeptide and a GABA<sub>B</sub>R2 polypeptide, which GABA<sub>B</sub>R1 polypeptide has an amino acid sequence identical to the amino acid sequence shown in Figures 24A-24D (SEQ ID NO: 48) or Figures 25A-25D (SEQ ID NO: 49), and which GABA<sub>B</sub>R2 polypeptide has an amino acid sequence (a) identical to the amino acid sequence shown in Figures 4A-4D (SEQ ID NO: 4) or Figures 23A-23D (SEQ ID NO: 47), or (b) encoded by a nucleic acid sequence identical to the receptor-encoding nucleic acid sequence contained in plasmid pEXJT3T7-hGABAB2 (ATCC Accession No. 203515) or in plasmid BO-55 (ATCC Accession No. 209104).--

F2

--210. (Amended) The process of claim 208, wherein the cells additionally express nucleic acid encoding GIRK1 and GIRK4.--

F3

--221. (Amended) The process of claim 213 or 214, wherein the

F3

cell is an insect cell or a mammalian cell.--

F4

See  
67

--224. (Three Times Amended) A method of screening a plurality of chemical compounds to determine whether any compound within such plurality of compounds activates a mammalian GABA<sub>B</sub>R1/R2 receptor, wherein the mammalian GABA<sub>B</sub>R1/R2 receptor comprises a GABA<sub>B</sub>R1 polypeptide and a GABA<sub>B</sub>R2 polypeptide, which GABA<sub>B</sub>R1 polypeptide has an amino acid sequence identical to the amino acid sequence shown in Figures 24A-24D (SEQ ID NO: 48) or Figures 25A-25D (SEQ ID NO: 49), and which GABA<sub>B</sub>R2 polypeptide has an amino acid sequence (a) identical to the amino acid sequence shown in Figures 4A-4D (SEQ ID NO: 4) or Figures 23A-23D (SEQ ID NO: 47), or (b) encoded by a nucleic acid sequence identical to the receptor-encoding nucleic acid sequence contained in plasmid pEXJT3T7-hGABAB2 (ATCC Accession No. 203515) or in plasmid BO-55 (ATCC Accession No. 209104) which comprises:

- (a) contacting cells containing nucleic acid encoding, and expressing on their cell surface, the GABA<sub>B</sub>R1/R2 receptor, wherein such cells prior to being transfected with such nucleic acid do not express the GABA<sub>B</sub>R1/R2 receptor, with the plurality of compounds under conditions permitting activation of the GABA<sub>B</sub>R1/R2 receptor;
- (b) determining whether the activity of the GABA<sub>B</sub>R1/R2 receptor is increased in the presence of the compounds, and if it is increased;
- (c) separately determining whether the activation of the GABA<sub>B</sub>R1/R2 receptor is increased by each compound

*F4 cont.* *Sub G7 cont.*  
included in the plurality of compounds, so as to thereby determine whether any compound or compounds present in such plurality of compounds activates the GABA<sub>B</sub>R1/R2 receptor.--

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*F5* --225. (Amended) The method of claim 224, wherein the cells express nucleic acid encoding GIRK1 and GIRK4.--

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*F6* --228. (Amended) The method of claim 224 or 225, wherein the cell is a mammalian cell.--

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*N.E* --229. (Amended) The method of claim 228, wherein the mammalian cell is non-neuronal in origin.--

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*F7* --233. (Amended) The process of claims 231, wherein the GABA<sub>B</sub>R1/R2 receptor comprises a GABA<sub>B</sub>R2 polypeptide which has the same amino acid sequence as that encoded by the plasmid BO-55 (ATCC Accession No. 209104).--

--234. (Amended) The process of claim 231, wherein the GABA<sub>B</sub>R1/R2 receptor comprises a GABA<sub>B</sub>R2 polypeptide which has the same amino acid sequence as that shown in Figures 4A-4D (SEQ ID NO: 4).--

--235. (Amended) The process of claim 231, wherein the GABA<sub>B</sub>R1/R2 receptor comprises a GABA<sub>B</sub>R2 polypeptide which has the same amino acid sequence as that encoded by the plasmid pEXJT3T7-hGABAB2 (ATCC Accession No. 203515).--

--236. (Amended) The process of claim 231, wherein the GABA<sub>B</sub>R1/R2 receptor comprises a GABA<sub>B</sub>R2 polypeptide which has the same amino acid sequence as that shown in Figures 23A-23D (SEQ ID NO: 47).--